



State of Utah

Department of Natural Resources

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Division of Oil, Gas & Mining

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Lieutenant Governor

January 29, 2006

CERTIFIED RETURN RECEIPT
7004 2510 0004 1824 4424

Lon Thomas
Star Stone Quarries, Inc.
4040 South 300 West
Salt Lake City, UT 84107

Subject: Initial Review of Notice of Intention to Revise Large Mining Operations, Star Stone Quarries, Inc., Rosebud Quarry, M0030026, Task ID# 1458, Box Elder County, Utah

Dear Mr. Thomas:

The Division has completed our review of your draft Notice of Intention to Revise Large Mining Operations for the Rosebud Quarry, located in Box Elder County, Utah. The information shows an increase of acreage from 9.5 to 24 acres. The Division has determined that is a significant change in your approved Notice and will be considered a revision to your approved Notice and will require public notice. The attached comments will need to be addressed before tentative approval may be granted.

The comments are listed under the applicable Minerals Rule heading; please format your response in a similar fashion and **address only those items requested in the attached technical review** by sending replacement pages of the original mining notice **using redline and strikeout text**. After the notice is determined technically complete and we are prepared to issue final approval, we will ask that you send us two clean copies of the complete and corrected plan. Upon final approval of the permit, we will return one copy stamped "approved" for your records.

The Division will suspend further review of the Rosebud Quarry revised Notice of Intention until your response to this letter is received. If you have any questions in this regard please contact me at (801) 538-5258 or Lynn Kunzler at 538-5310. If you wish to arrange a meeting to discuss this review, please contact us at your earliest convenience. Thank you for your cooperation in completing this permitting action.

Sincerely,

Susan M. White
Mining Program Coordinator
Minerals Regulatory Program

SMW:LK:pb

Attachment: Review

cc: Mike Ford, BLM

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REVIEW OF NOTICE OF INTENTION TO REVISE LARGE MINING OPERATIONS

Star Stone Quarries, Inc
Rosebud Quarry

M0030026
January 29, 2007

R647-4-101 - Filing Requirements and Review Procedures

Your Notice to Large Mining Operations appears to be formatted to the BLM rules. While the Division can review the information in this format, you will be required to submit replacement pages that can be inserted into your approved Notice or submit an entirely new notice with existing and revised information incorporated, prior to the Division issuing final approval. Please use Form MR-REV (available on the Division's web page) to identify the changes to be made to your approved Notice. Please provide the changes as replacement pages to the Notice, using redline/strike out to highlight changes.

R647-4-105 - Maps, Drawings & Photographs

105.1 Topographic base map, boundaries, pre-act disturbance

The maps included in the submittal do not show topographic contours.

For surety calculation purposes, maps need to show the extent and location of highwalls and the height of these features. In order to calculate the cost of reclamation, dump heights also need to be shown. (DJ)

105.2 Surface facilities map

None of the maps contained in the report show the scale of the drawing.

In order to confirm areas and to calculate a bond scales should be shown on the maps. (DJ)

105.3 Drawings or Cross Sections (slopes, roads, pads, etc.)

Cross-sections included with the submittal show original pre-mining surface and post-mining surfaces.

The cross-sections should also show surfaces after reclamation. Note: Post-mining surfaces should show the quarries after mining, before any reclamation occurs. (DJ)

105.3.15 Hydrologic designs and features to be incorporated into the mining and reclamation plan

The plan does not provide the necessary hydrologic designs to calculate the adequacy of the proposed 24- inch culvert size based on contributing watershed area and 25 year storm event. Please provide the necessary hydrologic calculations. (TM)

105.3.16 Baseline information maps and drawings

Please provide a contributing watershed map and drainage plan. (TM)

105.3.18 Other maps, plans as required by the Divisions.

Please provide a contributing watershed map for sizing the proposed culvert. (TM)

R647-4-106 - Operation Plan

106.3 Estimated acreages disturbed, reclaimed, annually.

The revised notice indicates that mining will increase at this site. Please provide new estimates of the acreage to be disturbed and reclaimed annually. (LK)

106.4 Nature of materials mined, waste and estimated tonnages

The revised notice indicates that mining will increase at this site. Please provide new estimates of the amount of topsoil, overburden, wasterock and materials to be mined on an annual basis. (LK)

106.5 Existing soil types, location, amount

Soils data provided in the original NOI covers the area that will be affected by this revision. No new soil data will be required at this time. However, an estimate of the total amount of topsoil that will be salvaged from the new area to be disturbed by this revision must be provided. (LK)

106.7 Existing vegetation - species and amount

This revision will not affect different vegetation communities than those already described to be disturbed in the approved NOI. No additional vegetation information is required. (LK)

R647-4-107 - Operation Practices

107.1 Drainages to minimize damage

The placement of the 24- inch by 60 foot culvert in the main drainage adjacent to the Sage Green property will require some specifics regarding how the culvert will be installed and how it will be removed to protect the drainage.

107.2 Erosion control & sediment control

The plan will require a Storm Water Permit in which erosion and sediment control will have to be discussed as required by the Division of Water Quality. Please fill out the required permits as discussed on the following website and include this permit in the Plan.

<http://www.waterquality.utah.gov/UPDES/stormwater.htm>

107.5 Suitable soils removed & stored

Please refer to comments under R647-4-106.5 and 6. (LK)

107.6 Concurrent reclamation

The Revision indicates that approval would allow for concurrent reclamation. However there is no discussion or plans to do so. Please provide plans describing concurrent reclamation, including the areas and estimated schedule for concurrent reclamation. (LK)

R647-4-109 - Impact Assessment

109.1 Impacts to surface & groundwater systems

The plan does not discuss any impacts to Surface and Groundwater. The plan needs to provide a search of water rights in the area and provide a discussion of erosion control. (TM)

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R647-4-110 - Reclamation Plan

110.5 Revegetation

The plan indicates that the seedbed surface will be scarified with loader teeth prior to seeding. The Division recommends that the reclaimed surfaces be ripped to a depth of 18" to 24" to remove compaction and facilitate vegetation success. (DJ)

R647-4-111 - Reclamation Practices

111.2 Reclamation of natural channels

Please provide a detailed reclamation plan describing the removal of the 24 by 60 foot culvert and how the surface water drainage will be recreated in a manner to protect upstream and downstream drainages. (TM)

111.3 Erosion & sediment control

The erosion and sediment control during reclamation will need to be described. (TM)

R647-4-113 - Surety

The surety calculations indicate that there is a total of 10 acres of dump tops that will need to be ripped. The maps included in the submittal do not show where this area is located. Please show where these 10 acres of dump top are located. (DJ)

The surety calculations show that the quarry floors will be covered with 16 inches of dump fines. Please show on the maps where this material will come from. (DJ)

The surety should show an activity for culvert removal and stabilization of the areas of the dump near the drainage. (DJ)

The plan indicates that there is a total of 0.66 acres of road at the site. There is nothing in the plan that notes the final disposition of this road. Please describe any treatments scheduled for this feature. (DJ)

Costs used to calculate the reclamation surety estimate included in the submittal are outdated. When the plan is considered complete and is approved, a surety will be calculated using the Division's updated costs. (DJ)